

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF

THE DEPENDENT RESURVEY OF

A PORTION OF THE EAST AND NORTH BOUNDARIES,

AND A PORTION OF THE SUBDIVISIONAL LINES,

IN

TOWNSHIP 22 SOUTH, RANGE 19 EAST,

OF THE SALT LAKE MERIDIAN
IN THE STATE OF UTAH

EXECUTED BY

Scott A. Burkhardt
Cadastral Surveyor

Under Special Instructions dated and approved *May 28, 2010*, which provided for the surveys included under Group Number *1144*, and Assignment Instructions dated *May 28, 2010*.

Survey Commenced, *June 1, 2010*
Survey Completed, *June 3, 2010*

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INDEX DIAGRAM

Township 22 South, Range 19 East.

6	5	4	3	2 12	7 1 4
7	8	9	10	11 10	11 12 4
18	17	16	15	14 9	9 13 3
19	20	21	22	23	7 24
30	29	28	27	26	25
31	32	33	34	35	36

TOWNSHIP 22 SOUTH, RANGE 19 EAST, SALT LAKE MERIDIAN, UTAH.

The following field notes are those of the dependent resurvey of a portion of the east and north boundaries, and a portion of the subdivisional lines, in T. 22 S., R. 19 E., Salt Lake Meridian, Utah.

HISTORY OF SURVEYS

Surveyed by		Retr. or Resurveyed by	
SOUTH BOUNDARY			
All	A.D. Ferron	1884	
All		H.D. Heist & J.H. Winwood	1908
EAST BOUNDARY			
All	A.D. Ferron	1884	
Portion		A.B. Lewis & D.H. Blossom	1898
All		H.D. Heist & J.H. Winwood	1908
Portion		G.W. Hochstrasser	1964
WEST BOUNDARY			
All	A.D. Ferron	1884	
All		H.D. Heist & J.H. Winwood	1908
NORTH BOUNDARY			
All	A.D. Ferron	1884	
All		H.D. Heist & J.H. Winwood	1908
All		R. Gentry	1919
Portion		E. Bird & R.C. Yundt	1942
SUBDIVISION			
All	H.D. Heist & J.H. Winwood	1908	
Portion		E. Bird & R.C. Yundt	1942

TOWNSHIP 22 SOUTH, RANGE 19 EAST, SALT LAKE MERIDIAN, UTAH.

The survey was executed in accordance with the specifications as set forth in the Manual of Surveying Instructions, 2009, and the Special Instructions for Group No. 1144, dated May 28, 2010.

The direction of the lines was determined by references to true meridian, established by Global Positioning System (GPS) utilizing Real-Time Kinematic (RTK) techniques throughout the survey. The positional accuracy of this survey complies with the *Standards for the Positional Accuracy of Cadastral Surveys When Using Global Navigation Satellite Systems (GNSS)* dated February 23, 2009. Trimble model 5800 GPS receivers were used for field collection. Cadastral Automated Plat Drafting (CAPD) software was the primary software utilized for project calculations.

Preliminary to the resurvey, the lines of the prior surveys were retraced and a search was made for all corners and other calls of record. Identified corners were remonumented in their original positions. Lost corners were reestablished and remonumented at proportionate positions based on the official record. The retracement data were thoroughly verified and only the true line field notes are given herein.

Geodetic control was derived from GPS static observations, post processed by National Geodetic Survey, Online Positioning User Service (OPUS), utilizing Continuously Operating Reference Stations (CORS): DH6916 MC04 MESA CNTY 04 COOP CORS ARP, DL3522 MC06 MACK CORS ARP, DH6914 MC03 MESA CNTY 03 COOP CORS ARP.

The geographic position for the corner of sections 1, 2, 35, and 36, Tps. 21 and 22 S., R. 19 E., as determined by direct RTK methods from the National Geodetic Survey OPUS solution, is as follows:

Latitude: 38°56'07.219" N.,
 Longitude: 109°46'42.035" W., N.A.D. 1983 (CORS96)
 Network Accuracy = 0.200 meter at 95% confidence

The geographic position for the corner of sections 13, 14, 23, and 24, T. 22 S., R. 19 E., as determined by direct RTK methods from the National Geodetic Survey OPUS solution, is as follows:

Latitude: 38°53'25.995" N.,
 Longitude: 109°46'41.857" W., N.A.D. 1983 (CORS96)
 Network Accuracy = 0.200 meter at 95% confidence

DEPENDENT RESURVEY OF A PORTION OF THE EAST BOUNDARY,
TOWNSHIP 22 SOUTH, RANGE 19 EAST, SALT LAKE MERIDIAN, UTAH.

CHAINS

Dependent Resurvey of a Portion of the East Boundary,
T. 22 S., R. 19 E., Salt Lake Meridian, Utah.

Reestablishment of the Survey Executed by A.D. Ferron in 1884,
the Independent Resurvey Executed by H.D. Heist and J.H. Winwood
in 1908, and the Dependent Resurveys Executed by A.B. Lewis &
D.H. Blossom in 1898, and G.W. Hochstrasser in 1964.

Beginning at the corner of sections 13, 18, 19, and 24,
monumented with a sandstone, 14x6x6 inches (Record: 15x12x4),
firmly set, projecting 4 inches above the ground, with 3 notches
on the north edge and 3 notches on the south edge; with a rebar,
5/8 inch diameter, 24 inches long, west of the corner.

At the corner point

Set an aluminum post, 30 inches long, 2 1/2 inches in diameter,
29 inches in the ground, with magnet at base, with aluminum cap
marked:

T22S	
R19E	R20E
S13	S18
S24	S19
2010	

Bury marked stone east of the aluminum post.

Place rebar inside the aluminum post.

Corner is located in a drainage, course southwest.

N. 0°02.0' W., between sections 13 and 18.

- 39.996 Point for the 1/4 section corner of sections 13 and 18, at
proportionate distance. Found a weathered portion of a wooden
post laying loose on the ground.

Set an aluminum post, 30 inches long, 2 1/2 inches in diameter,
29 inches in the ground, with magnet at base, with aluminum cap
marked:

DEPENDENT RESURVEY OF A PORTION OF THE EAST BOUNDARY,
TOWNSHIP 22 SOUTH, RANGE 19 EAST, SALT LAKE MERIDIAN, UTAH.

CHAINS

T22S
R19E R20E
1/4
S13 | S18
2010

Corner is located in gently rolling hills, with desert grasses.

- 79.992 The corner of sections 7, 12, 13, and 18, monumented with a sandstone, 9x8x6 inches (Record: 12x10x5), firmly set, buried 4 inches below the ground, with 2 notches on the north edge and 4 notches on the south edge.

At the corner point

Set an aluminum post, 30 inches long, 2 1/2 inches in diameter, 28 inches in the ground, with magnet at base, with aluminum cap marked:

T22S
R19E R20E
S12 | S7
S13 | S18
2010

Bury marked stone north of aluminum post.

Corner is located on fairly level and open ground, with desert vegetation.

N. 0°02.9' W., between sections 7 and 12.

- 40.046 The 1/4 section corner of sections 7 and 12, monumented with a sandstone, 17x9x4 inches (Record: limestone, 18x10x3), firmly set, projecting 7 inches above the ground, marked 1/4 on west face. Found a wooden post, 2x4x36 inches, with no discernible markings, lying loose on the ground nearby.

At the corner point

Set an aluminum post, 30 inches long, 2 1/2 inches in diameter, 28 inches in the ground, with magnet at base, with aluminum cap marked:

DEPENDENT RESURVEY OF A PORTION OF THE EAST BOUNDARY,
TOWNSHIP 22 SOUTH, RANGE 19 EAST, SALT LAKE MERIDIAN, UTAH.

CHAINS

T22S
R19E R20E
1/4
S12 | S7
2010

Bury marked stone east of aluminum post.

Corner is located in gently rolling terrain, with desert vegetation.

N. 0°02.5' W., beginning new measurement.

- 40.020 The corner of sections 1, 6, 7, and 12, monumented with a sandstone, 14x7x5 inches (Record: limestone, 15x9x5), firmly set, projecting 4 inches above the ground, with 1 notch on the north edge and 5 notches on the south edge. Found two wooden posts, 2x4x25 inches, and 2x2x19 inches, with no discernible markings, laying loose on the ground nearby.

At the corner point

Set an aluminum post, 30 inches long, 2 1/2 inches in diameter, 28 inches in the ground, with magnet at base, with aluminum cap marked:

T22S
R19E R20E
S1 | S6
S12 | S7
2010

Bury marked stone south of the aluminum post.

Corner is located in gently rolling hills, with desert vegetation.

N. 0°02.2' W., between sections 1 and 6.

- 39.984 The 1/4 section corner of sections 1 and 6, monumented with a sandstone, 11x9x3 inches, firmly set, projecting 4 inches above the ground, with no discernible markings (Record: a limestone, 15x10x4, marked 1/4 on west face).

At the corner point

DEPENDENT RESURVEY OF A PORTION OF THE EAST BOUNDARY,
TOWNSHIP 22 SOUTH, RANGE 19 EAST, SALT LAKE MERIDIAN, UTAH.

CHAINS

Set an aluminum post, 30 inches long, 2 1/2 inches in diameter, 29 inches in the ground, with magnet at base, with aluminum cap marked:

T22S
R19E R20E
1/4
S1 | S6
2010

Set a steel fence post north of corner.

Bury stone east of aluminum post.

Corner is located in gently rolling terrain, with desert vegetation.

N. 0°02.4' W., beginning new measurement.

- 41.316 The corner of Tps. 21 and 22 S., R. 20 E., monumented with an iron post, 2 1/2 inches diameter, firmly set, projecting 6 inches above the ground, with brass cap marked as described in the official record of the 1964 resurvey of the south boundary of T. 21 S., R. 20 E., by G.W. Hochstrasser.

Set a steel fence post north of corner.

N. 0°17.2' E., beginning new measurement.

- 5.653 Point for the corner of Tps. 21 and 22 S., R. 19 E., at proportionate distance, on the west boundary of T. 21 S., R. 20 E. There is no remaining evidence of the original corner.

Set an aluminum post, 30 inches long, 2 1/2 inches in diameter, 29 inches in the ground, with magnet at base, with aluminum cap marked:

T21S R19E
S36 | T21S
 | R20E
S1 | S31
T22S
2010

Set a steel fence post north of corner.

Corner is located on fairly level ground, east of an improved

DEPENDENT RESURVEY OF A PORTION OF THE EAST BOUNDARY,
TOWNSHIP 22 SOUTH, RANGE 19 EAST, SALT LAKE MERIDIAN, UTAH.
CHAINS

gravel road.

- 40.153 The 1/4 section corner of section 31 only, T.21 S., R. 20 E., monumented with an iron post, 2 inches diameter, firmly set, projecting 4 inches above the ground, with brass cap marked as described in the official record of the 1964 resurvey of the subdivisional lines of T. 21 S., R. 20 E., by G.W. Hochstrasser.

Dependent Resurvey of a Portion of the North Boundary,
T. 22 S., R. 19 E., Salt Lake Meridian, Utah.

Reestablishment of the Survey Executed by A.D. Ferron in 1884,
and the Dependent Resurveys Executed by H.D. Heist,
and J.H. Winwood in 1908, and R. Gentry in 1919.

From the corner of Tps. 21 and 22 S., R. 19 E., hereinbefore described.

N. 89°37.3' W., between sections 1 and 36.

- 40.149 The 1/4 section corner of sections 1 and 36, monumented with an iron post, 1 inch diameter, firmly set, projecting 15 inches above the ground, with brass cap marked as described in the official record of the 1919 resurvey.

Set a steel fence post north of corner.

S. 89°43.9' W., beginning new measurement.

- 39.987 The corner of sections 1, 2, 35, and 36, monumented with an iron post, 2 inches in diameter, firmly set, projecting 10 inches above the ground, with brass cap marked as described in the official record of the 1919 resurvey.

Set a steel fence post north of corner.

Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 22 S., R. 19 E., Salt Lake Meridian, Utah.

Reestablishment of the Survey Executed by H.D. Heist
and J.H. Winwood in 1908.

From the corner of sections 13, 18, 19, and 24, on the east boundary of the township, hereinbefore described.

S. 89°52.2' W., between sections 13 and 24.

- 40.082 The 1/4 section corner of sections 13 and 24, monumented with a sandstone, 14x6x6 inches (Record: 15x6x6), firmly set,

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,
TOWNSHIP 22 SOUTH, RANGE 19 EAST, SALT LAKE MERIDIAN, UTAH.
CHAINS

projecting 6 inches above the ground, marked 1/4 on west face.

At the corner point

Set an aluminum post, 30 inches long, 2 1/2 inches in diameter, 29 inches in the ground, with magnet at base, with aluminum cap marked:

T22S R19E

S13

1/4 ———

S24

2010

Bury marked stone south of aluminum post.

Corner is located on gently northwest-sloping ground, with sparse vegetation.

S. 89°58.4' W., beginning new measurement.

- 40.025 The corner of sections 13, 14, 23, and 24, monumented with a sandstone, 13x8x8 inches, firmly set, projecting 5 inches above a mound of stone, 2 feet base, 1/2 foot high, faintly marked with 1 notch on the east face; with a weathered wooden post, 4x4x23 inches, with undecipherable markings on 3 sides, laying on the ground nearby (Record: sandstone, marked with 3 grooves on south edge, 1 groove on east edge, and a redwood post, 4x4x36 inches, marked T22S S13 on northeast face, R19E S24 on the southeast face, S23 on the southwest face, and S14 on the northwest face).

At the corner point

Set an aluminum post, 30 inches long, 2 1/2 inches in diameter, 28 inches in the ground, with magnet at base, in a collar of stone, 2 feet diameter, with aluminum cap marked:

T22S R19E

S14 | S13

—+—
S23 | S24

2010

Place marked stone in collar of stone.

From the corner, a 3-strand barbed wire fence extends N. 21° E. and S. 2° W.

Corner is located in gently rolling hills.

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,
TOWNSHIP 22 SOUTH, RANGE 19 EAST, SALT LAKE MERIDIAN, UTAH.

CHAINS

N. 0°01.8' W., between sections 13 and 14.

- 40.015 Point for the 1/4 section corner of sections 13 and 14, at proportionate distance. Found a weathered wooden post, 2x4x26 inches lying loose on the ground; there is no remaining evidence of the original marked stone.

Set an aluminum post, 30 inches long, 2 1/2 inches in diameter, 28 inches in the ground, with magnet at base, with aluminum cap marked:

T22S	R19E
1/4	
S14	S13
2010	

Corner is located in gently rolling terrain, with desert vegetation.

- 80.030 The corner of sections 11, 12, 13, and 14, monumented with a sandstone, 14x12x7 inches, firmly set, projecting 4 inches above the ground, with no discernible markings, with remains of a wooden post, in several pieces, with no discernible markings, laying nearby (Record: sandstone, marked with 4 notches on south edge, 1 notch on east edge, and a redwood post, 4x4x36 inches, marked T23S S12 on northeast face, R19E S13 on the southeast face, S14 on the southwest face, and S11 on the northwest face).

At the corner point

Set an aluminum post, 30 inches long, 2 1/2 inches in diameter, 27 inches in the ground, with magnet at base, with aluminum cap marked:

T22S	R19E
S11	S12
S14	S13
2010	

Bury stone south of aluminum post.

Corner is located in gently rolling, desert terrain.

From the corner of sections 7, 12, 13, and 18, on the east boundary of the township, hereinbefore described.

S. 89°56.9' W., between sections 12 and 13.

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,
TOWNSHIP 22 SOUTH, RANGE 19 EAST, SALT LAKE MERIDIAN, UTAH.

CHAINS

- 40.043 Point for the 1/4 section corner of sections 12 and 13, at proportionate distance. Found fragments of a weathered wooden post lying loose on the ground; there is no remaining evidence of the original marked stone (Record: a pine post, 3x3x36 inches, marked 1/4 on north face).

Set an aluminum post, 30 inches long, 2 1/2 inches in diameter, 29 inches in the ground, with magnet at base, with aluminum cap marked:

T22S R19E

 S12
1/4 ———
 S13

2010

Corner is located on a fairly level and open plain, with desert grasses.

- 80.086 The corner of sections 11, 12, 13, and 14.

N. 0°02.6' W., between sections 11 and 12.

- 40.082 The 1/4 section corner of sections 11 and 12, monumented with a sandstone, 14x10x6 inches, firmly set, projecting 4 inches above the ground, marked "4" on the west face, with the partial remains of a weathered wooden post laying on the ground nearby (Record: a sandstone, 12x12x10, marked 1/4 on the west face, witnessed by a mound of stone, 2 feet base, 1 1/2 feet high, west of corner).

At the corner point

Set an aluminum post, 30 inches long, 2 1/2 inches in diameter, 22 inches in the ground, with magnet at base, in a collar of stone, 2 feet diameter, with aluminum cap marked:

T22S R19E
 1/4
 |
S11 | S12

2010

Bury marked stone in the collar of stone around the post.

Corner is located in rolling hills, on a gentle west slope.

N. 0°04.6' W., beginning new measurement.

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,
TOWNSHIP 22 SOUTH, RANGE 19 EAST, SALT LAKE MERIDIAN, UTAH.

CHAINS

- 40.035 The corner of sections 1, 2, 11, and 12, monumented with a sandstone, 20x10x6 inches (Record: 20x12x8 inches), firmly set, projecting 4 inches above the ground, marked with 5 notches on the south edge, 1 notch on the east edge.

At the corner point

Set an aluminum post, 30 inches long, 2 1/2 inches in diameter, 29 inches in the ground, with magnet at base, with aluminum cap marked:

T22S R19E

S2	S1
S11	S12

2010

Set a steel fence post north of the corner.

Bury marked stone west of the aluminum post.

Corner is located on a fairly level and open plain, with desert grasses.

From the corner of sections 1, 6, 7, and 12, on the east boundary of the township, hereinbefore described.

S. 89°59.1' W., between sections 1 and 12.

- 40.046 Point for the 1/4 section corner of sections 1 and 12, at proportionate distance. Found a weathered wooden post, 2 1/2 x 3 1/2 x 16 inches, marked S12 on one face, and a second wooden post, 2 x 4 x 36 inches, with sharpened end, with no marks, both laying loose on the ground; there is no remaining evidence of the original marked stone.

Set an aluminum post, 30 inches long, 2 1/2 inches in diameter, 28 inches in the ground, with magnet at base, with aluminum cap marked:

T22S R19E

S1
1/4 ———
S12

2010

Set a steel fence post north of corner.

Corner is located in gently rolling hills, with desert vegetation.

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,
TOWNSHIP 22 SOUTH, RANGE 19 EAST, SALT LAKE MERIDIAN, UTAH.

CHAINS

80.092 The corner of sections 1, 2, 11, and 12.

N. 0°03.4' W., between sections 1 and 2.

40.020 Point for the 1/4 section corner of sections 1 and 2, at proportionate distance. There is no remaining evidence of the wooden post or marked stone.

Set an aluminum post, 30 inches long, 2 1/2 inches in diameter, 28 inches in the ground, with magnet at base, with aluminum cap marked:

T22S	R19E
1/4	
S2	S1
2010	

Set a steel fence post north of corner.

Corner is located on fairly level and open terrain, with desert grasses.

87.052 The corner of sections 1, 2, 35, and 36, on the north boundary of the township, hereinbefore described.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

Name	Capacity
Phil Freiberg	Survey Technician

CERTIFICATE OF SURVEY

I, *Scott A. Burkhardt*, Cadastral Surveyor, HEREBY CERTIFY upon honor, that in pursuance of Special Instructions bearing the date of *May 28, 2010*, I have *dependently resurveyed a portion of the east and north boundaries, and a portion of the subdivisional lines, in Township 22 South, Range 19 East,* of the *Salt Lake* Meridian, in the State of *Utah*, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said Special Instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in specific manner described in the foregoing field notes.

11/13/2011

Date

Scott A. Burkhardt

Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Salt Lake City, Utah

The foregoing field notes of the *dependent resurvey of a portion of the east and north boundaries, and a portion of the subdivisional lines, in Township 22 South, Range 19 East, Salt Lake Meridian, Utah,* executed by *Scott A. Burkhardt, Cadastral Surveyor,* having been critically examined and found correct, are hereby approved.

November 28, 2011

Date

Daniel W. Webb

Chief Cadastral Surveyor for Utah